Ziad Hassanin

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Skills ___

- Python | Go | Bash | Kubernetes | Docker | AWS | Terraform | Ansible | Helm | Kustomize | Jenkins | Github Actions | ArgoCD | Istio
- Prometheus | Loki | Grafana | OpenTelemetry | Tempo | Ubuntu | Red Hat | Django | FastAPI | Nginx | PostgreSQL | Redis | AlpineJS
- Git | Modular Monolith | Microservices | Distributed Systems | English 'C1' | First aid

Experience

Site Reliability Engineer

Abdul Latif Jameel Finance

Cairo, Egypt | 05/2024 - until now

- Migrated two kubernetes clusters from AWS EKS to Huawei Cloud CCE service, adhering to Egypt Financial Supervisory Authority (FRA)
 regulations. The first to try the new Cairo Region. Adapted and maintained, the company's first centralized monitoring solutions (LGTM).
- Enhanced overall regulations and workflows of secrets management. Designed and maintained all CICD Pipelines and automation scripts.
- Decreased cloud bill by more than 58%. Full responsibility, ownership over cloud services and bills monitoring. And 5.6k+ USD awards.
- Utilized the following: Terraform, Go, Prometheus, Grafana, Loki, Tempo, Ansible, Huawei Cloud, AWS, Vault, PostgreSQL, Lens, GitLab.

Teaching Assistant

Cairo University

Giza, Egypt || 10/2023 - 01/2024

- Managed 70 students across two sections. Updated and maintained course materials, including 14 weekly labs, quizzes, and a lab exam.
- Utilized Python Manim for concept visualizations enhancing students' understanding and engagement.
- Supervised six final course projects, each involving teams of four, guiding each project development and ensuring successful completion.

Junior Site Reliability Engineer

SilverKey Technologies

Remote, Egypt || 07/2022 - 08/2023

- Administered one internal linux server and two windows production servers. Ensuring monitored optimal performance and reliability.
- Utilized WinSCP and PowerShell to automate migration of 800 GB data between two windows servers with zero down time.
- Conducted extensive research and maintained company's choice of an open-source API management solution: **Kong**, **Apache APISIX** and **WSO2**. More details available at: github.com/ZiadMansourM/OS-APIM.
- Automated cleaning process and management of the company's private docker registry and CI server using Bash.
- Efficiently managed two critical outages while on-call, and managed to accept, identify, investigate, diagnose and respond in less than 30 minutes and implemented preventive automated solutions for similar future incidents.

Education _

Semester Abroad

San José State University

San José, CA, USA | 01/2022 - 06/2022

• Fully funded by USAID, Resident of SJSU International House home for 63 international students from 25 countries. GPA: 3.325.

Bachelor of Computer Engineering

Cairo University

Giza, Egypt | 08/2018 - 05/2023

• Fully funded by USAID, under supervision of Amideast Egypt. GPA: 3.12 and Highest GPA: 3.48.

Achievements

Received two prestigious full scholarships from USAID, administered by Amideast Egypt, with a combined worth of over 160k USD:

- Higher Education Initiative full bachelor's degree scholarship, distinguished by its highly competitive 1.6% national acceptance rate.
- (2x) Awesome Student of The Cohort HEI: proud that I was selected two times. Only seven students are selected each semester.
- English Access Microscholarship: acceptance rate was 20%.

Blog

They say "to master a new technology, you will have to play with it". You can access my blog at notes.sreboy.com/blog:

- Terraformed Odyssey: From Code to Day Two Operations and Beyond: Terraform, EKS, IRSA with OIDC, Ingress, Cert Manager, Helm, ArgoCD, Kube Prometheus Stack, Multi-Arch Docker Images, Route53, Custom Grafana Dashboards and Mermaid.
- Docker Engine Under The Hood: Cgroups, Namespaces, pivot_root, capabilities, seccomp-bpf, overlay filesystems, docker networks.
- High Availability Kubernetes Cluster From Scratch: Terraform, Ansible, Prometheus, Grafana, external etcd topology.
- Internal & External Ingress Nginx Controllers with Google's Online Boutique: Route53 private zone, OpenVPN, Helm, Cert Manager.

Projects

- ScanMate 'graduation project': multi-view close range 3d scanning app. More at: github.com/ZiadMansourM/photogrammetry.
- Cheapbot: Certbot plugin to automate dns-01 challenge for Namecheap. More at: github.com/ZiadMansourM/cheapbot.
- Fstr: akin to Python's f-strings, Go utility that simplifies string formatting with interpolation. More at: github.com/ZiadMansourM/fstr.
- In Depth Analysis and Comparison of Parallelism Techniques in Python and Go 'Talk': github.com/ZiadMansourM/concurrency-parallelism.
- Smart Settings: Inspired by Django, handle your project's settings in a pythonic way. More at: github.com/ZiadMansourM/settings.